

WEST Search History

DATE: Tuesday, January 30, 2007

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L56	6785689 .uref.	1
<input type="checkbox"/>	L55	L54 and (load near5 structure)	0
<input type="checkbox"/>	L54	L53 and (schema near5 specific)	5
<input type="checkbox"/>	L53	L52 and l33	11
<input type="checkbox"/>	L52	(generat\$3 near5 schema) and (load\$3 near5 schema) and database\$1 and identify\$3 and memory and @py<=2004	35
<input type="checkbox"/>	L51	l49 and (schema near5 criteria\$1)	0
<input type="checkbox"/>	L50	l49 and (load near5 criteria\$1)	0
<input type="checkbox"/>	L49	l41 and (metadata near5 schema) and (query\$3 near5 schema)	4
		<i>DB=PGPB; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L48	US-20030115211-A1.did.	1
<input type="checkbox"/>	L47	US-20030115211-A1.did.	1
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L46	l41 and (schema near5 criteria)	1
<input type="checkbox"/>	L45	L43 and (criteria near5 structure)	0
<input type="checkbox"/>	L44	L43 and (load near5 structure)	0
<input type="checkbox"/>	L43	L42 and (generat\$3 near5 schema)	17
<input type="checkbox"/>	L42	L41 and l33	39
<input type="checkbox"/>	L41	(database\$1 and schema).ti. and @py<=2004	180
<input type="checkbox"/>	L40	L39 and memory	3
<input type="checkbox"/>	L39	L38 and (database\$1 near5 criteria)	3
<input type="checkbox"/>	L38	L37 and (generat\$3 near5 schema)	23
<input type="checkbox"/>	L37	L36 and (load\$3 near5 database\$1)	55
<input type="checkbox"/>	L36	L35 and (schema near5 data)	243
<input type="checkbox"/>	L35	L34 and (schema near5 structure)	289
<input type="checkbox"/>	L34	L33 and (database\$1 near5 schema) and @py<=2004	865
<input type="checkbox"/>	L33	707/1-2,100-102.ccls.	17452
<input type="checkbox"/>	L32	L31 and hypertext and xml	6
<input type="checkbox"/>	L31	L30 and schema	28
<input type="checkbox"/>	L30	L29 and metadata	28

<input type="checkbox"/>	L29	(database near5 server) and (relational near5 schema) and routine\$1 and (client near5 application\$1) and table\$1 and value\$1 and @py<=2003	48
<input type="checkbox"/>	L28	L27 and (file transfer protocol)	10
<input type="checkbox"/>	L27	L26 and (table\$1 near5 metadata)	32
<input type="checkbox"/>	L26	L25 and metadata	111
<input type="checkbox"/>	L25	schema and relational and database\$1 and protocol and file and transfer and hypertext and procedures and @py<=2003	379
<input type="checkbox"/>	L24	L23 and (identify\$3 near5 table\$1)	5
<input type="checkbox"/>	L23	L22 and (identify\$3 near5 data)	11
<input type="checkbox"/>	L22	L21 and (schema same sql)	24
<input type="checkbox"/>	L21	L20 and (table\$1 near5 attribute\$1)	31
<input type="checkbox"/>	L20	L19 and (schema near5 metadata)	91
<input type="checkbox"/>	L19	(metadata and sql and table\$1 and schema and generat\$3 and database\$1 and table\$1) and @py<=2003	510
<input type="checkbox"/>	L18	5970490.uref.	165
<input type="checkbox"/>	L17	L16 and sql and engine\$1	5
<input type="checkbox"/>	L16	L14 and populat\$3 and (element\$1 or record\$1)	11
<input type="checkbox"/>	L15	L14 and (multiple near5 operation\$1)	0
<input type="checkbox"/>	L14	L13 and table\$1 and row\$1 and column\$1 and id\$ and @py<=2003	22
<input type="checkbox"/>	L13	L12 and (schema near5 structure)	192
<input type="checkbox"/>	L12	L11 and (database\$1 near5 schema)	416
<input type="checkbox"/>	L11	schema near5 metadata	904
<input type="checkbox"/>	L10	("20020174128" "7007037" "7028037" "7051033" "20030140308" "7047250" "7047253" "7051039" "20030033285" "20050050105" "20050050056")!.ABPN1,NRPN,PN,TBAN,WKU.	22
<input type="checkbox"/>	L9	L1 and html	0
<input type="checkbox"/>	L8	L1 and hypertext	0
<input type="checkbox"/>	L7	L1 and (ip near5 address)	0
<input type="checkbox"/>	L6	L1 and network	0
<input type="checkbox"/>	L5	L1 and ftp	0
<input type="checkbox"/>	L4	L1 and protocol	0
<input type="checkbox"/>	L3	L1 and neutral	0
<input type="checkbox"/>	L2	L1 and (table\$1 near5 column\$1)	1
<input type="checkbox"/>	L1	20020169788.pn.	2

END OF SEARCH HISTORY

WEST Search History

DATE: Tuesday, January 30, 2007

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=PGPB; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L16	(generat\$3 and schema and specific and load\$3 and structure\$1 and (query\$3 or criteria) and data and subsequent and stor\$3 and exist\$3 and acquir\$3).clm.	0
<input type="checkbox"/>	L15	(generat\$3 and schema and specific and load\$3 and structure\$1 and (query\$3 or criteria) and data and subsequent and stor\$3).clm.	1
<input type="checkbox"/>	L14	(generat\$3 and schema and specific and load\$3 and structure\$1 and (query\$3 or criteria) and data and subsequent).clm.	1
<input type="checkbox"/>	L13	(generat\$3 and schema and specific and load\$3 and structure\$1 and (query\$3 or criteria) and data).clm.	5
<input type="checkbox"/>	L12	(schema and specific and load\$3 and database\$1 and generat\$3 and criteria and memory and acquir\$3).clm.	0
<input type="checkbox"/>	L11	(schema and specific and load\$3 and database\$1 and generat\$3 and criteria and memory).clm.	3
<input type="checkbox"/>	L10	(schema and specific and load\$3 and database\$1 and generat\$3 and criteria).clm.	4
<input type="checkbox"/>	L9	(schema and specific and load\$3 and database\$1).clm.	22
<input type="checkbox"/>	L8	(stor\$3 and database\$1 and schema\$1 and structure and load\$3 and generat\$3 and criteria\$1 and specific).clm.	0
<input type="checkbox"/>	L7	(stor\$3 and database\$1 and schema\$1 and structure and load\$3 and generat\$3 and criteria\$1).clm.	1
<input type="checkbox"/>	L6	(stor\$3 and database\$1 and schema\$1 and structure and load\$3 and generat\$3).clm.	15
<input type="checkbox"/>	L5	(stor\$3 and database\$1 and schema\$1 and structure and load\$3).clm.	29
<input type="checkbox"/>	L4	(stor\$3 and database\$1 and schema\$1 and load\$3 and data and specific and structure\$1 and criteria).clm.	0
<input type="checkbox"/>	L3	(stor\$3 and database\$1 and schema\$1 and load\$3 and data and specific and structure\$1 and acquir\$3 and first and criteria).clm.	0
<input type="checkbox"/>	L2	(stor\$3 and database\$1 and schema\$1 and load\$3 and data and specific and structure\$1).clm.	7
<input type="checkbox"/>	L1	(stor\$3 and database\$1 and schema\$1).clm.	648

END OF SEARCH HISTORY

□ Search Results

BROWSE

SEARCH

IEEE XPLORE GUIDE

Results for "(((generate<in>metadata) <and> (schema<in>metadata))<and> (database<in>metadata))"

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Your search matched **61** of **1476571** documents.

A maximum of **100** results are displayed, **25** to a page, sorted by **Relevance** in **Descending** order.

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Modify Search

☐ Check to search only within this results set

Display Format: ☒ Citation ☐ Citation & Abstract

» Key

IEEE JNL IEEE Journal or Magazine

IEEE JNL IEEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEEE Conference Proceeding

IEEE STD IEEE Standard

[Select All](#) [Deselect All](#)

View: 1-

- ☐ 1. **A generic load/extract utility for data transfer between XML documents at databases**
Bourret, R.; Bornhovd, C.; Buchmann, A.;
[Advanced Issues of E-Commerce and Web-Based Information Systems, 2000. Second International Workshop on](#)
8-9 June 2000 Page(s):134 - 143
Digital Object Identifier 10.1109/WECWIS.2000.853868
[AbstractPlus](#) | Full Text: [PDF](#)(172 KB) IEEE CNF
[Rights and Permissions](#)
- ☐ 2. **A methodology for interschema relationship identification in heterogeneous databases**
Ramesh, V.; Ram, S.;
[System Sciences, 1995. Proceedings of the Twenty-Eighth Hawaii International Conference on](#)
Volume 3, 3-6 Jan. 1995 Page(s):263 - 272 vol.3
Digital Object Identifier 10.1109/HICSS.1995.375554
[AbstractPlus](#) | Full Text: [PDF](#)(880 KB) IEEE CNF
[Rights and Permissions](#)
- ☐ 3. **XAS: a system for accessing componentized, virtual XML documents**
Ming-Ling Lo; Shyh-Kwei Chen; Padmanabhan, S.; Jen-Yao Chung;
[Software Engineering, 2001. ICSE 2001. Proceedings of the 23rd International Conference on](#)
12-19 May 2001 Page(s):493 - 502
Digital Object Identifier 10.1109/ICSE.2001.919122
[AbstractPlus](#) | Full Text: [PDF](#)(900 KB) IEEE CNF
[Rights and Permissions](#)
- ☐ 4. **Generation of external schemas in ODMG databases**
Torres, M.; Samos, J.;
[Database Engineering & Applications, 2001 International Symposium on](#)
16-18 July 2001 Page(s):89 - 98
Digital Object Identifier 10.1109/IDEAS.2001.938074
[AbstractPlus](#) | Full Text: [PDF](#)(912 KB) IEEE CNF
[Rights and Permissions](#)
- ☐ 5. **Interactive migration of legacy databases to net-centric technologies**
Bychkov, Y.; Jahnke, J.H.;
[Reverse Engineering, 2001. Proceedings. Eighth Working Conference on](#)
2-5 Oct. 2001 Page(s):328 - 334

Digital Object Identifier 10.1109/WCRE.2001.957839

[AbstractPlus](#) | Full Text: [PDF](#)(648 KB) [IEEE CNF](#)
[Rights and Permissions](#)

- ☐ **6. Consistent view removal in transparent schema evolution systems**
Crestana-Taube, V.; Rundensteiner, E.A.;
[Research Issues in Data Engineering, 1996. Interoperability of Nontraditional \[](#)
[Systems. Proceedings. Sixth International Workshop on](#)
26-27 Feb. 1996 Page(s):138 - 147
Digital Object Identifier 10.1109/RIDE.1996.492251
[AbstractPlus](#) | Full Text: [PDF](#)(896 KB) [IEEE CNF](#)
[Rights and Permissions](#)

- ☐ **7. A presentation scheduling scheme for multimedia databases**
Jisook Par; Sukho Lee; Jaehyuk Cha; Yunmook Nah;
[Computer Software and Applications Conference, 1996. COMPSAC '96., Proc](#)
[International](#)
21-23 Aug. 1996 Page(s):284 - 289
Digital Object Identifier 10.1109/CMPSAC.1996.544178
[AbstractPlus](#) | Full Text: [PDF](#)(472 KB) [IEEE CNF](#)
[Rights and Permissions](#)

- ☐ **8. A pen-based database interface for mobile computers**
Alonso, R.; Mani, V.S.;
[Mobile Computing Systems and Applications, 1994. Proceedings., Workshop c](#)
8-9 Dec. 1994 Page(s):130 - 135
Digital Object Identifier 10.1109/MCSA.1994.512748
[AbstractPlus](#) | Full Text: [PDF](#)(444 KB) [IEEE CNF](#)
[Rights and Permissions](#)

- ☐ **9. Superviews: Virtual Integration of Multiple Databases**
Motro, A.;
[Software Engineering, IEEE Transactions on](#)
Volume SE-13, Issue 7, July 1987 Page(s):785 - 798
[AbstractPlus](#) | Full Text: [PDF](#)(4072 KB) [IEEE JNL](#)
[Rights and Permissions](#)

- ☐ **10. Gambit: An Interactive Database Design Tool for Data Structures, Integrity and Transactions**
Braegger, R.P.; Dudler, A.M.; Rebsamen, J.; Zehnder, C.A.;
[Software Engineering, IEEE Transactions on](#)
Volume SE-11, Issue 7, July 1985 Page(s):574 - 583
[AbstractPlus](#) | Full Text: [PDF](#)(3608 KB) [IEEE JNL](#)
[Rights and Permissions](#)

- ☐ **11. A generalized expert system for database design**
Dogac, A.; Yuruten, B.; Spaccapietra, S.;
[Software Engineering, IEEE Transactions on](#)
Volume 15, Issue 4, April 1989 Page(s):479 - 491
Digital Object Identifier 10.1109/32.16607
[AbstractPlus](#) | Full Text: [PDF](#)(1216 KB) [IEEE JNL](#)
[Rights and Permissions](#)

- ☐ **12. Converting OO models into RDBMS schema**
Blaha, M.; Premerlani, W.; Hwa Shen;
[Software, IEEE](#)
Volume 11, Issue 3, May 1994 Page(s):28 - 39
Digital Object Identifier 10.1109/52.281715

[AbstractPlus](#) | Full Text: [PDF\(1188 KB\)](#) IEEE JNL
[Rights and Permissions](#)

- ☐ **13. Consistent schema version removal: an optimization technique for objec**
Crestana-Jensen, V.M.; Lee, A.J.; Rundensteiner, E.A.;
[Knowledge and Data Engineering, IEEE Transactions on](#)
Volume 12, Issue 2, March-April 2000 Page(s):261 - 280
Digital Object Identifier 10.1109/69.842266

[AbstractPlus](#) | [References](#) | Full Text: [PDF\(420 KB\)](#) IEEE JNL
[Rights and Permissions](#)

- ☐ **14. An algorithm to compare OO-conceptual schemas**
Silva, J.; Carsi, J.A.; Ramos, I.;
[Software Maintenance, 2002. Proceedings. International Conference on](#)
3-6 Oct. 2002 Page(s):351 - 358
Digital Object Identifier 10.1109/ICSM.2002.1167791

[AbstractPlus](#) | Full Text: [PDF\(387 KB\)](#) IEEE CNF
[Rights and Permissions](#)

- ☐ **15. Mapping rules to convert from ODL to XML-SCHEMA**
Afonso de Sousa, A.; Luis Pereira, J.; Alvaro Carvalho, J.;
[Computer Science Society, 2002. SCCC 2002. Proceedings. 22nd Internation](#)
[the Chilean](#)
6-8 Nov. 2002 Page(s):133 - 141
Digital Object Identifier 10.1109/SCCC.2002.1173185

[AbstractPlus](#) | Full Text: [PDF\(270 KB\)](#) IEEE CNF
[Rights and Permissions](#)

- ☐ **16. Distributing CORBA views from an OODBMS**
Viara, E.; Vaysseix, G.; Barillot, E.;
[Database Engineering and Applications Symposium, 2002. Proceedings. Inter](#)
17-19 July 2002 Page(s):116 - 127
Digital Object Identifier 10.1109/IDEAS.2002.1029663

[AbstractPlus](#) | Full Text: [PDF\(284 KB\)](#) IEEE CNF
[Rights and Permissions](#)

- ☐ **17. Providing an infrastructure for a cross database management tool**
Charlot, R.;
[Information Technology: Coding and Computing, 2002. Proceedings. Internatic](#)
[on](#)
8-10 April 2002 Page(s):196 - 200
Digital Object Identifier 10.1109/ITCC.2002.1000386

[AbstractPlus](#) | Full Text: [PDF\(267 KB\)](#) IEEE CNF
[Rights and Permissions](#)

- ☐ **18. From XML schema to relations: a cost-based approach to XML storage**
Bohannon, P.; Freire, J.; Roy, P.; Simeon, J.;
[Data Engineering, 2002. Proceedings. 18th International Conference on](#)
26 Feb.-1 March 2002 Page(s):64 - 75
Digital Object Identifier 10.1109/ICDE.2002.994698

[AbstractPlus](#) | Full Text: [PDF\(413 KB\)](#) IEEE CNF
[Rights and Permissions](#)

- ☐ **19. Semantic integration of XML heterogeneous data sources**
Reynaud, C.; Sirot, J.-P.; Vodislav, D.;
[Database Engineering & Applications, 2001 International Symposium on](#)
16-18 July 2001 Page(s):199 - 208
Digital Object Identifier 10.1109/IDEAS.2001.938086

[AbstractPlus](#) | Full Text: [PDF\(812 KB\)](#) IEEE CNF

Rights and Permissions

- ☐ **20. Towards hypermedia support for database systems**
Bhaumik, A.; Dixit, D.; Galmare, R.; Krishna, A.; Tzagarakis, M.; Vaitis, M.; Bi Lu, Q.; Aljalad, F.; Zhang, L.;
System Sciences, 2001. Proceedings of the 34th Annual Hawaii International (
Jan 3-6 2001 Page(s):10 pp.
[AbstractPlus](#) | Full Text: [PDF\(204 KB\)](#) IEEE CNF
[Rights and Permissions](#)

- ☐ **21. FAST refresh using mass query optimization**
Lehner, W.; Cochrane, B.; Pirahesh, H.; Zaharioudakis, M.;
Data Engineering, 2001. Proceedings. 17th International Conference on
2-6 April 2001 Page(s):391 - 398
Digital Object Identifier 10.1109/ICDE.2001.914852
[AbstractPlus](#) | Full Text: [PDF\(716 KB\)](#) IEEE CNF
[Rights and Permissions](#)

- ☐ **22. Designing semistructured databases using ORA-SS model**
Xiaoying Wu; Tok Wang Ling; Mong Li Lee; Dobbie, G.;
Web Information Systems Engineering, 2001. Proceedings of the Second Inter
Conference on
Volume 1, 3-6 Dec. 2001 Page(s):171 - 180 vol.1
[AbstractPlus](#) | Full Text: [PDF\(875 KB\)](#) IEEE CNF
[Rights and Permissions](#)

- ☐ **23. SISQL: schema-independent database querying (on and off the Web)**
Masermann, U.; Vossen, G.;
Database Engineering and Applications Symposium, 2000 International
18-20 Sept. 2000 Page(s):55 - 64
Digital Object Identifier 10.1109/IDEAS.2000.880562
[AbstractPlus](#) | Full Text: [PDF\(648 KB\)](#) IEEE CNF
[Rights and Permissions](#)

- ☐ **24. Object-Oriented mediator queries to XML data**
Lin, H.; Risch, T.; Katchaounov, T.;
Web Information Systems Engineering, 2000. Proceedings of the First Internat
on
Volume 2, 19-21 June 2000 Page(s):39 - 46 vol.2
Digital Object Identifier 10.1109/WISE.2000.882852
[AbstractPlus](#) | Full Text: [PDF\(536 KB\)](#) IEEE CNF
[Rights and Permissions](#)

- ☐ **25. An automatic navigation scheme for XML documents through object-rela**
Tseng, F.S.C.; Wen-Jong Hwung; Fei-Fei Cheng;
Knowledge-Based Intelligent Engineering Systems and Allied Technologies, 21
Fourth International Conference on
Volume 1, 30 Aug.-1 Sept. 2000 Page(s):428 - 431 vol.1
Digital Object Identifier 10.1109/KES.2000.885847
[AbstractPlus](#) | Full Text: [PDF\(344 KB\)](#) IEEE CNF
[Rights and Permissions](#)

View: 1-

☐ Search Results

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Results for "(((schema<in>metadata) <and> (relational<in>metadata))<and> (database..."
Your search matched **229** of **1476571** documents.
A maximum of **100** results are displayed, **25** to a page, sorted by **Relevance** in **Descending** order.

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Modify Search

(((schema<in>metadata) <and> (relational<in>metadata))<and> (database<in>metadata))

☐ Check to search only within this results set

Display Format: ☒ Citation ☐ Citation & Abstract

» Key

IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

[Select All](#) [Deselect All](#)

View: [1-25](#) | [26-5](#)

- ☐ **1. Converting relational database into XML document**
Fong, J.; Pang, F.; Bloor, C.;
[Database and Expert Systems Applications, 2001. Proceedings. 12th International Conference on](#)
3-7 Sept. 2001 Page(s):61 - 65
Digital Object Identifier 10.1109/DEXA.2001.953042
[AbstractPlus](#) | Full Text: [PDF](#)(304 KB) IEEE CNF
[Rights and Permissions](#)
- ☐ **2. Identifying extended entity-relationship object structures in relational schema**
Markowitz, V.M.; Makowsky, J.A.;
[Software Engineering, IEEE Transactions on](#)
Volume 16, Issue 8, Aug. 1990 Page(s):777 - 790
Digital Object Identifier 10.1109/32.57618
[AbstractPlus](#) | Full Text: [PDF](#)(1380 KB) IEEE JNL
[Rights and Permissions](#)
- ☐ **3. A prototype using a hybrid approach to recover dynamic semantics from schema**
Cheng, Y.W.;
[Systems, Man, and Cybernetics, 1999. IEEE SMC '99 Conference Proceedings. 1999 IEEE International Conference on](#)
Volume 5, 12-15 Oct. 1999 Page(s):750 - 755 vol.5
Digital Object Identifier 10.1109/ICSMC.1999.815645
[AbstractPlus](#) | Full Text: [PDF](#)(448 KB) IEEE CNF
[Rights and Permissions](#)
- ☐ **4. Integration of relational databases in a multidatabase system based on schema enrichment**
Keim, D.A.; Kriegel, H.P.; Miethsam, A.;
[Research Issues in Data Engineering, 1993: Interoperability in Multidatabase Systems. Proceedings. RIDE-IMS '93. Third International Workshop on](#)
19-20 April 1993 Page(s):96 - 104
Digital Object Identifier 10.1109/RIDE.1993.281939
[AbstractPlus](#) | Full Text: [PDF](#)(832 KB) IEEE CNF
[Rights and Permissions](#)
- ☐ **5. A model for schema evolution in temporal relational databases**
Scalas, M.R.; Cappelli, A.; De Castro, C.;

CompEuro '93. 'Computers in Design, Manufacturing, and Production', Proceedings
24-27 May 1993 Page(s):223 - 231
Digital Object Identifier 10.1109/CMPEUR.1993.289869
[AbstractPlus](#) | Full Text: [PDF](#)(548 KB) [IEEE CNF](#)
[Rights and Permissions](#)

☐ **6. Static and dynamic reverse engineering of relational database application methodology**

Malki, M.; Flory, A.; Rahmouni, M.K.;
Computer Systems and Applications, ACS/IEEE International Conference on,
25-29 June 2001 Page(s):191 - 194
Digital Object Identifier 10.1109/AICCSA.2001.933975
[AbstractPlus](#) | Full Text: [PDF](#)(388 KB) [IEEE CNF](#)
[Rights and Permissions](#)

☐ **7. Transformation of relational schemas to object-oriented schemas**

Weiyl Meng; Kamada, A.; Yu-Hsi Chang;
Computer Software and Applications Conference, 1995. COMPSAC 95. Proceedings
Nineteenth Annual International
9-11 Aug. 1995 Page(s):356 - 361
Digital Object Identifier 10.1109/CMPSAC.1995.524801
[AbstractPlus](#) | Full Text: [PDF](#)(628 KB) [IEEE CNF](#)
[Rights and Permissions](#)

☐ **8. Transform a NIAM conceptual schema into a EKNE relational database schema**

Zhang, Y.; Orlowska, M.E.;
Databases, Parallel Architectures and Their Applications, PARBASE-90, International Conference on
7-9 March 1990 Page(s):563
Digital Object Identifier 10.1109/PARBSE.1990.77228
[AbstractPlus](#) | Full Text: [PDF](#)(120 KB) [IEEE CNF](#)
[Rights and Permissions](#)

☐ **9. Visualization schemas for flexible information visualization**

North, C.; Conklin, N.; Saini, V.;
Information Visualization, 2002. INFOVIS 2002. IEEE Symposium on
28-29 Oct. 2002 Page(s):15 - 22
Digital Object Identifier 10.1109/INFVIS.2002.1173142
[AbstractPlus](#) | Full Text: [PDF](#)(476 KB) [IEEE CNF](#)
[Rights and Permissions](#)

☐ **10. Object-relational database management system (ORDBMS) using frame**

Wong, H.K.; Fong, A.S.;
Information Technology: Coding and Computing, 2000. Proceedings. International Conference on
27-29 March 2000 Page(s):375 - 379
Digital Object Identifier 10.1109/ITCC.2000.844282
[AbstractPlus](#) | Full Text: [PDF](#)(48 KB) [IEEE CNF](#)
[Rights and Permissions](#)

☐ **11. Towards the reverse engineering of renormalized relational databases**

Petit, J.-M.; Toumani, F.; Boulicaut, J.-F.; Kouloumdjian, J.;
Data Engineering, 1996. Proceedings of the Twelfth International Conference on
26 Feb.-1 March 1996 Page(s):218 - 227
Digital Object Identifier 10.1109/ICDE.1996.492110
[AbstractPlus](#) | Full Text: [PDF](#)(780 KB) [IEEE CNF](#)
[Rights and Permissions](#)

12. A fact-based object-oriented database design tool with a natural language

- ☐ Tanawong, T.; Chittayasothorn, S.;
[TENCON 2000. Proceedings](#)
 Volume 2, 24-27 Sept. 2000 Page(s):266 - 270 vol.2
 Digital Object Identifier 10.1109/TENCON.2000.888745
[AbstractPlus](#) | Full Text: [PDF](#)(276 KB) [IEEE CNF](#)
[Rights and Permissions](#)

- ☐ **13. A generic load/extract utility for data transfer between XML documents and databases**
 Bourret, R.; Bornhovd, C.; Buchmann, A.;
[Advanced Issues of E-Commerce and Web-Based Information Systems, 2000 Second International Workshop on](#)
 8-9 June 2000 Page(s):134 - 143
 Digital Object Identifier 10.1109/WECWIS.2000.853868
[AbstractPlus](#) | Full Text: [PDF](#)(172 KB) [IEEE CNF](#)
[Rights and Permissions](#)

- ☐ **14. Poster on rule-based technology for schema transformation**
 Yangjun Chen; Benn, W.;
[Cooperative Information Systems, 1997. COOPIS '97. Proceedings of the Second International Conference on](#)
 24-27 June 1997 Page(s):232
 Digital Object Identifier 10.1109/COOPIS.1997.613825
[AbstractPlus](#) | Full Text: [PDF](#)(112 KB) [IEEE CNF](#)
[Rights and Permissions](#)

- ☐ **15. An autonomous decentralized database system based on scripts and actors**
 Ishikawa, H.; Kubota, K.;
[Autonomous Decentralized Systems, 1995. Proceedings. ISADS 95. Second Symposium on](#)
 25-27 April 1995 Page(s):185 - 191
 Digital Object Identifier 10.1109/ISADS.1995.398971
[AbstractPlus](#) | Full Text: [PDF](#)(728 KB) [IEEE CNF](#)
[Rights and Permissions](#)

- ☐ **16. Producing relational database schemata from an object oriented design**
 Fitsilis, P.; Gerogiannis, V.; Kameas, A.; Pavlides, G.;
[EUROMICRO 94. System Architecture and Integration. Proceedings of the 20th Conference.](#)
 5-8 Sept. 1994 Page(s):251 - 257
 Digital Object Identifier 10.1109/EURMIC.1994.390386
[AbstractPlus](#) | Full Text: [PDF](#)(420 KB) [IEEE CNF](#)
[Rights and Permissions](#)

- ☐ **17. Distributed database meta-translation technology: review and potential**
 Fiddian, N.J.; Gray, W.A.;
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IEEE STD IEEE Standard

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IEEE CNF IEEE Conference Proceeding

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IEEE STD IEEE Standard

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1 Information processor, schema definition method and program

Inventor: KOJIMA JUNICHI (JP)

Applicant:

EC:

IPC: **G06F7/00; G06F17/00; G06F7/00** (+1)

Publication info: **US2006288021** - 2006-12-21

2 SYSTEM FOR CONVERTING SCHEMA OF CASE MODEL INFORMATION

Inventor: JUNG HYU TAEK; LEE SEON MI; (+1)

Applicant: KOREA ELECTRONICS TELECOMM

EC:

IPC: (IPC1-7): **G06F17/30**

Publication info: **KR100309670B** - 2001-09-10

3 Ndma db schema, dicom to relational schema translation, and xml to sql query transformation

Inventor: HOLLEBEEK ROBERT J (US)

Applicant: TRUSTEES OF THE UNIVERSITY OF (US)

EC:

IPC: **G06F7/00; G06F7/00**

Publication info: **US2006282447** - 2006-12-14

4 Schema for sharing relational database types

Inventor: SLUIMAN HARM (CA)

Applicant: IBM

EC: **G06F17/30S3**

IPC: **G06F17/00; G06F7/00; G06F17/30** (+3)

Publication info: **US2006277214** - 2006-12-07

5 SYSTEM, METHOD, AND DEVICE FOR AUTOMATICALLY DEFINING/BUILDING DIMENSION MODEL BASED ON RELATIONSHIP SCHEMA USING SIMPLIFIED ANALYSIS HEURISTICS

Inventor: PETCULESCU CRISTIAN; NETZ AMIR

Applicant: MICROSOFT CORP

EC: **G06F17/30S1; G06F17/30B**

IPC: **G06F12/00; G06F17/30; G06F12/00** (+2)

Publication info: **KR20040085044** - 2004-10-07

6 METHOD FOR GENERATING OBJECT-RELATIONAL SCHEMA/QUERY OF UML BASED MAIN MEMORY RESIDENT TYPE

Inventor: BAE MYEONG NAM; CHOI WAN

Applicant: KOREA ELECTRONICS TELECOMM

EC:

IPC: **G06F17/40; G06F17/40**; (IPC1-7): **G06F17/40**

Publication info: **KR20040046259** - 2004-06-05

7 METHOD FOR INTEGRATING SCHEMA USING MQL

Inventor: HONG YEONG GUK (KR); KIM MI YEON (KR); (+2)

Applicant: KOREA TELECOMMUNICATION (KR)

EC:

IPC: **G06F17/00; G06F17/00**; (IPC1-7): **G06F17/00**

Publication info: **KR20010054560** - 2001-07-02

8 Schema generator: quick and efficient conversion of healthcare specific structural data represented in relational database tables, along with complex validation rules and business rules, to custom HL7XSD with applicable annotations

Inventor: GAURAV SURAJ (US); JANAKIRAMAN MATHRUBOOTHAM (US); (+1)

Applicant: MICROSOFT CORP (US)

EC:

IPC: **G06F7/00; G06F7/00**

Publication info: **US2006206502** - 2006-09-14

9 System for querying markup language data stored in a relational database according to markup language schema

Inventor: BALMIN ANDREY (US); PAPA KONSTANTINOU IOANNIS (US); (+2)

Applicant:

EC:

IPC: **G06F17/30; G06F17/30**

Publication info: **US2006179049** - 2006-08-10

10 Method and apparatus for incremental evaluation of schema-directed XML publishing

Inventor: BOHANNON PHILIP L (US); FAN WENFEI (US)

Applicant:

EC:

IPC: **G06F7/00; G06F7/00**

Publication info: **US2006173861** - 2006-08-03

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RESULT LIST

Approximately **41** results found in the Worldwide database for:
schema in the title AND **relational and database** in the title or abstract
(Results are sorted by date of upload in database)

- 11 Automated relational schema generation within a multidimensional enterprise software system**
Inventor: LEGAULT THOMAS (CA); ROY DOMINIQUE (CA); (+1) Applicant:
EC: IPC: **G06F7/00; G06F7/00**
Publication info: **US2006117057** - 2006-06-01
- 12 Method and apparatus for web-based, schema-driven application-server and client-interface package using a generalized, data-object format and asynchronous communication methods without the use of a markup language.**
Inventor: PATNUDE GREGORY P (US) Applicant:
EC: IPC: **G06F15/16; G06F15/16**
Publication info: **US2006047780** - 2006-03-02
- 13 NDMA DB SCHEMA DICOM TO RELATIONAL SCHEMA TRANSLATION AND XML TO SQL QUERY TRANSLATION**
Inventor: HOLLEBEEK ROBERT J (US) Applicant: TRUSTEES OF THE UNIVERSITY OF (US)
EC: IPC: **G06F17/30; G06F17/30; G06F (+2)**
Publication info: **CA2528492** - 2005-01-06
- 14 Methods, apparatus, and data structures for annotating a database design schema and/or indexing annotations**
Inventor: MCCONNELL CHRISTOPHER CLAYTON (US) Applicant: MICROSOFT CORP (US)
EC: **G06F17/30B; G06F17/30S; (+1)** IPC: **G06F17/30; G06F17/30**
Publication info: **US6999963** - 2006-02-14
- 15 System and method for extension of data schema**
Inventor: BEDELL JEFFREY A (US); HURWOOD WILLIAM (US); (+4) Applicant: MICROSTRATEGY INC (US)
EC: IPC: **G06F17/30; G06F17/30**
Publication info: **US6996568** - 2006-02-07
- 16 Methods, apparatus, and data structures for annotating a database design schema and/or indexing annotations**
Inventor: MCCONNELL CHRISTOPHER C (US) Applicant: MICROSOFT CORP (US)
EC: IPC: **G06F7/00; G06F7/00; (IPC1-7): G06F7/00**
Publication info: **US2005256889** - 2005-11-17
- 17 Distributed single schema data modeling system and method**
Inventor: IRLIN KEVIN (US) Applicant:
EC: **G06F17/30G; G06F17/30S** IPC: **G06F7/00; G06F7/00; (IPC1-7): G06F7/00**
Publication info: **US2005267901** - 2005-12-01
- 18 Mapping of an RDBMS schema onto a multidimensional data model**
Inventor: CRAS JEAN-YVES (US); BISTRO HENRI (US); (+1) Applicant:
EC: **G06F17/30B; G06F17/30H; (+1)** IPC: **G06F17/30; G06F17/30; (IPC1-7): G06F7/00**
Publication info: **US2005015360** - 2005-01-20
- 19 Relational database schema version management**
Inventor: TAMMA LEELA S (US); VITALDEVARA KRISHNA (US) Applicant: MICROSOFT CORP
EC: IPC: **G06F9/44S; G06F9/44S; (IPC1-7): G06F9/44S**
Publication info: **US2005198630** - 2005-09-08

20 XML schema collection objects and corresponding systems and methods

Inventor: TOMIC DRAGAN (US); XAVIER JOSEPH (US); **Applicant:** MICROSOFT CORP (+5)

EC:

IPC: G06F17/00; G06F17/00; (IPC1-7): G06F17/00

Publication info: US2005120029 - 2005-06-02

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RESULT LIST

Approximately **41** results found in the Worldwide database for:
schema in the title AND **relational and database** in the title or abstract
(Results are sorted by date of upload in database)

21 Relational schema format

Inventor: VASCHILLO ALEXANDER (US); AHARONI
AVNER Y (US); (+3)

Applicant:

EC:

IPC: **G06F7/00; G06F7/00**; (IPC1-7): G06F7/00

Publication info: **US2005050069** - 2005-03-03

22 Method for storing XML documents in a relational database system while exploiting XML schema

Inventor: KRISHNAMURTHY RAJASEKAR (US);
SHANMUGASUNDARAM JAYAVEL (US); (+1)

Applicant:

EC: G06F17/30S1; G06F17/30W7S

IPC: **G06F17/30; G06F17/30**; (IPC1-7): G06F7/00

Publication info: **US2004128296** - 2004-07-01

23 METHODS AND APPARATUS FOR QUERYING A RELATIONAL DATA STORE USING SCHEMA-LESS QUERIES

Inventor: BRITTON COLIN P; KUMAR ASHOK; (+3)

Applicant: METATOMIX INC (US)

EC: G06F17/30H; G06F17/30X3D

IPC: **G06F17/30; G06F17/30**; (IPC1-7): G06F

Publication info: **WO03044634** - 2003-05-30

24 Method for displaying and modifying a relational database schema

Inventor: JANSSEN OCKE (DE)

Applicant: SUN MICROSYSTEMS INC (US)

EC: G06F17/30H4

IPC: **G06F17/30; G06F17/30**; (IPC1-7): G06F17/30

Publication info: **EP1367503** - 2003-12-03

25 System and method for viewing relational data using a hierarchical schema

Inventor: BRUNDAGE MICHAEL L (US); BURUGAPALLI
SRINIVASA R (US); (+4)

Applicant: MICROSOFT CORP (US)

EC:

IPC: **G06F7/00; G06F7/00**; (IPC1-7): G06F7/00

Publication info: **US2003204511** - 2003-10-30

26 Installable schema for low-overhead databases

Inventor: ZANDER JASON L (US)

Applicant: MICROSOFT CORP (US)

EC: G06F17/30B; G06F17/30S1

IPC: **G06F17/30; G06F17/30**; (IPC1-7): G06F17/00

Publication info: **US6839715** - 2005-01-04

27 Interoperable retrieval and deposit using annotated schema to interface between industrial document specification languages

Inventor: CHEN SHYH-KWEI (US); YIH JIH-SHYR (US)

Applicant: IBM (US)

EC: G06F17/22M; G06F17/22T

IPC: **G06F17/22; G06F17/22**; (IPC1-7): G06F17/21

Publication info: **US2003018666** - 2003-01-23

28 Mapping hierarchical object data to a relational database schema

Inventor: GARCIA JULIO CESAR (US); HUNT JOSEPH R (US)

Applicant: HEWLETT PACKARD CO (US)

EC: G06F17/30S1; G06F17/30S3

IPC: **G06F17/30; G06F17/30**; (IPC1-7): G06F17/30

Publication info: **GB2368427** - 2002-05-01

29 SYSTEM AND METHOD FOR AUTOMATIC LOADING OF AN XML DOCUMENT DEFINED BY A DOCUMENT-TYPE DEFINITION INTO A RELATIONAL DATABASE INCLUDING THE GENERATION OF A RELATIONAL SCHEMA THEREFOR

Inventor: LEE WANG-CHIEN; MITCHELL GAIL ANNE;
(+1)

Applicant: VERIZON LAB INC (US)

EC: G06F17/30S1; G06F17/30W7S

IPC: **G06F17/30; G06F17/30**; (IPC1-7): G06F17/30

Publication info: **WO0161566** - 2001-08-23

30 System and method for automatic loading of an XML document defined by a document-type definition into a relational database including the generation of a relational schema therefor

Inventor: LEE WANG-CHIEN (US); MITCHELL GAIL

Applicant:

ANNE (US); (+1)

EC: G06F17/30S1; G06F17/30W7S

IPC: **G06F17/30; G06F17/30**; (IPC1-7): G06F7/00

Publication info: **US2002169788** - 2002-11-14

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RESULT LIST

Approximately **93** results found in the Worldwide database for:
relational in the title AND **schema and data** in the title or abstract
(Results are sorted by date of upload in database)

- 1 SYSTEM AND METHOD FOR TRANSLATING BETWEEN RELATIONAL DATABASE QUERIES AND MULTIDIMENSIONAL DATABASE QUERIES**
Inventor: CHOW GEORGE (CA); ECKSTEIN DARRYL (CA); (+1) Applicant: ORBITAL TECHNOLOGIES INC (CA); CHOW GEORGE (CA); (+2)
EC: IPC: **G06F17/30; G06F17/30**
Publication info: **WO2006136025** - 2006-12-28
- 2 Ndma db schema, dicom to relational schema translation, and xml to sql query transformation**
Inventor: HOLLEBEEK ROBERT J (US) Applicant: TRUSTEES OF THE UNIVERSITY OF (US)
EC: IPC: **G06F7/00; G06F7/00**
Publication info: **US2006282447** - 2006-12-14
- 3 Schema for sharing relational database types**
Inventor: SLUIMAN HARM (CA) Applicant: IBM
EC: **G06F17/30S3** IPC: **G06F17/00; G06F7/00; G06F17/30 (+3)**
Publication info: **US2006277214** - 2006-12-07
- 4 METHOD FOR GENERATING OBJECT-RELATIONAL SCHEMA/QUERY OF UML BASED MAIN MEMORY RESIDENT TYPE**
Inventor: BAE MYEONG NAM; CHOI WAN Applicant: KOREA ELECTRONICS TELECOMM
EC: IPC: **G06F17/40; G06F17/40; (IPC1-7): G06F17/40**
Publication info: **KR20040046259** - 2004-06-05
- 5 Schema generator: quick and efficient conversion of healthcare specific structural data represented in relational database tables, along with complex validation rules and business rules, to custom HL7XSD with applicable annotations**
Inventor: GAURAV SURAJ (US); JANAKIRAMAN MATHRUBOOTHAM (US); (+1) Applicant: MICROSOFT CORP (US)
EC: IPC: **G06F7/00; G06F7/00**
Publication info: **US2006206502** - 2006-09-14
- 6 Having a single set of object relational mappings across different instances of the same schemas**
Inventor: BARCIA ROLAND (US) Applicant: IBM (US)
EC: IPC: **G06F17/30; G06F17/30**
Publication info: **US2006184568** - 2006-08-17
- 7 System for querying markup language data stored in a relational database according to markup language schema**
Inventor: BALMIN ANDREY (US); PAPAKONSTANTINOU IOANNIS (US); (+2) Applicant:
EC: IPC: **G06F17/30; G06F17/30**
Publication info: **US2006179049** - 2006-08-10
- 8 System and method of translating a relational database into an XML document and vice versa**
Inventor: FONG JOSEPH S (HK) Applicant:
EC: IPC: **G06F7/00; G06F7/00**
Publication info: **US2006173865** - 2006-08-03
- 9 System and method for common object/relational mapping**
Inventor: IVANOVA VIKTORIYA (BG) Applicant:
EC: IPC: **G06F17/00; G06F7/00; G06F7/00 (+1)**

Publication info: **US2006143223** - 2006-06-29

10 Generating a relational view for a base model schema

Inventor: BOYER PHILIP L (US); CONN SHARON T (US); Applicant:
(+1)

EC:

IPC: **G06F17/21; G06F17/21**

Publication info: **US2006136804** - 2006-06-22

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relational in the title AND **schema and data** in the title or abstract
(Results are sorted by date of upload in database)

- 11 Automated generation of dynamic data entry user interface for relational database management systems**
Inventor: KESLER JOHN N (US) Applicant:
EC: G06F17/30B IPC: **G06F17/00; G06F17/00**
Publication info: **US7062502** - 2006-06-13
- 12 Automated relational schema generation within a multidimensional enterprise software system**
Inventor: LEGAULT THOMAS (CA); ROY DOMINIQUE Applicant:
(CA); (+1)
EC: IPC: **G06F7/00; G06F7/00**
Publication info: **US2006117057** - 2006-06-01
- 13 Memory cache management in XML/relational data mapping**
Inventor: TOMIC DRAGAN (US); PAL SHANKAR (US); Applicant: MICROSOFT CORP (US)
(+3)
EC: IPC: **G06F17/30; G06F17/30**
Publication info: **US2006085489** - 2006-04-20
- 14 System and method for synchronizing and/or updating an existing relational database with supplemental XML data**
Inventor: LEE WANG-CHIEN (US); MITCHELL GAIL Applicant: VERIZON LAB INC (US)
ANNE (US); (+2)
EC: G06F17/30S1; G06F17/30W7S IPC: **G06F17/30; G06F17/30**
Publication info: **US7031956** - 2006-04-18
- 15 Method and system for mapping of XML schema data into relational data structures**
Inventor: DIBBLE CLIFFORD T (US); TOMIC DRAGAN Applicant: MICROSOFT CORP (US)
(US); (+4)
EC: G06F17/30X3D IPC: **G06F17/30; G06F17/30**
Publication info: **EP1647905** - 2006-04-19
- 16 NDMA DB SCHEMA DICOM TO RELATIONAL SCHEMA TRANSLATION AND XML TO SQL QUERY TRANSLATION**
Inventor: HOLLEBEEK ROBERT J (US) Applicant: TRUSTEES OF THE UNIVERSITY OF (US)
EC: IPC: **G06F17/30; G06F17/30; G06F (+2)**
Publication info: **CA2528492** - 2005-01-06
- 17 Method and system for reconstruction of object model data in a relational database**
Inventor: DJUGASH JUDY I (US); DRUCKER TRAVIS M Applicant: IBM (US)
(US); (+1)
EC: G06F17/30B2; G06F17/30S1E IPC: **G06F17/00; G06F17/00**
Publication info: **US2006026189** - 2006-02-02
- 18 Methods and apparatus for querying a relational data store using schema-less queries**
Inventor: BRITTON COLIN P (US); KUMAR ASHOK (US); Applicant: METATOMIX INC
(+3)
EC: IPC: **G06F7/00; G06F7/00; (IPC1-7): G06F7/00**
Publication info: **US2005187926** - 2005-08-25
- 19 Similarity search engine for use with relational databases**
Inventor: RIPLEY JOHN R (US) Applicant: INFOGLIDE SOFTWARE CORP (US)
EC: G06F17/30H IPC: **G06F17/30; G06F17/30; (IPC1-7): G06F7/00**

Publication info: **US2005055345** - 2005-03-10

20 Apparatus and method for mapping relational data and metadata to XML

Inventor: KRISHNAPRASAD MURALIDHAR (US);
KRISHNAMURTHY VISWANATHAN (US); (+2)

Applicant: ORACLE INT CORP (US)

EC: G06F17/30S1

IPC: **G06F7/00; G06F17/30; G06F7/00** (+2)

Publication info: **US2005055358** - 2005-03-10

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Approximately **77** results found in the Worldwide database for:
relational in the title AND **schema and data** in the title or abstract
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41 System for keyword based searching over relational databases

Inventor: CHAUDHURI SURAJIT (US); AGRAWAL
SANJAY (US); (+1)

Applicant: MICROSOFT CORP (US)

EC: G06F17/30S1N5; G06F17/30S1

IPC: **G06F17/30**; **G06F17/30**; (IPC1-7): G06F7/00
(+1)

Publication info: **US2003088715** - 2003-05-08

42 Online reorganization and redefinition of relational database tables

Inventor: SUBRAMANIAM MAHESH (US); LOAIZA JOAN (US)
Applicant: ORACLE INT CORP (US)

EC: G06F17/30B; G06F17/30S1

IPC: **G06F17/30**; **G06F17/30**; (IPC1-7): G06F17/30

Publication info: **US6965899** - 2005-11-15

43 Mapping hierarchical object data to a relational database schema

Inventor: GARCIA JULIO CESAR (US); HUNT JOSEPH R (US)
Applicant: HEWLETT PACKARD CO (US)

EC: G06F17/30S1; G06F17/30S3

IPC: **G06F17/30**; **G06F17/30**; (IPC1-7): G06F17/30

Publication info: **GB2368427** - 2002-05-01

44 SYSTEM AND METHOD FOR AUTOMATIC LOADING OF AN XML DOCUMENT DEFINED BY A DOCUMENT-TYPE DEFINITION INTO A RELATIONAL DATABASE INCLUDING THE GENERATION OF A RELATIONAL SCHEMA THEREFOR

Inventor: LEE WANG-CHIEN; MITCHELL GAIL ANNE;
(+1)

Applicant: VERIZON LAB INC (US)

EC: G06F17/30S1; G06F17/30W7S

IPC: **G06F17/30**; **G06F17/30**; (IPC1-7): G06F17/30

Publication info: **WO0161566** - 2001-08-23

45 NESTED RELATIONAL DATA MODEL

Inventor: GORELIK ALEXANDER (US); CHAWLA
SACHINDER SINGH (US); (+4)

Applicant: ACTA TECHNOLOGIES INC (US); GORELIK
ALEXANDER (US); (+5)

EC: G06F17/30S1E

IPC: **G06F17/00**; **G06F17/00**; (IPC1-7): G06F17/00

Publication info: **WO0159602** - 2001-08-16

46 Encapsulating form and function in user data in a relational database in order to eliminate database schema changes

Inventor: MINDER SHARON E (US)

Applicant: IBM (US)

EC: G06F17/30B; G06F17/30S1

IPC: **G06F17/30**; **G06F17/30**; (IPC1-7): G06F7/00

Publication info: **US2002078063** - 2002-06-20

47 SYSTEM AND METHOD FOR TRANSFORMING A RELATIONAL DATABASE TO A HIERARCHICAL DATABASE

Inventor: RIPLEY JOHN (US); WOTRING STEVE (US)

Applicant: INFOGLIDE CORP (US); RIPLEY JOHN (US);
(+1)

EC: G06F17/30B; G06F17/30B2

IPC: **G06F17/30**; **G06F17/30**; (IPC1-7): G06F7/00
(+1)

Publication info: **WO0125895** - 2001-04-12

48 System and method for transforming a relational database to a hierarchical database

Inventor: WOTRING STEVE C (US); RIPLEY JOHN R (US)

Applicant: INFOGLIDE CORP (US)

EC: G06F17/30B; G06F17/30S1

IPC: **G06F17/30**; **G06F17/30**; (IPC1-7): G06F17/30

Publication info: **US6665677** - 2003-12-16

49 Method and apparatus for navigation of relational databases on distributed networks

Inventor: TSAI DANIEL E (US)

Applicant:

EC: G06F17/30G4; G06F17/30S1

IPC: **G06F17/30; G06F17/30**; (IPC1-7): G06F17/30

Publication info: **US6701321** - 2004-03-02

50 Graphical interface for object-relational query builder

Inventor: YEE DAVID R (US); GAUNCE DAVID BRENNAN Applicant: ORACLE CORP (US)
(US)

EC: G06F17/30H4

IPC: **G06F17/30; G06F17/30**; (IPC1-7): G06F17/00

Publication info: **US6353830** - 2002-03-05

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(25) Filing Language: English

(26) Publication Language: English

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60/182,047 11 February 2000 (11.02.2000) US

(71) Applicant (for all designated States except US): ACTA
TECHNOLOGIES, INC. [US/US]; 1667 Plymouth
Street, Mountain View, CA 94043 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): GORELIK,
Alexander [US/US]; 44153 Boitano Drive, Fremont, CA
94539 (US). CHAWLA, Sachinder, Singh [US/US]; 1963
Pine Street, San Francisco, CA 94109 (US). SYED, Awez,

Imran [US/US]; 10810 Brewer House Road, Rockville,
MD 20852 (US). BURDA, Leon [US/US]; 22206 Quin-
terno Court, Cupertino, CA 95014 (US). YEE, Mon,
For [US/US]; 255 Yerba Buena Avenue, San Francisco,
CA 94127 (US). GANTIMAHAPATRUNI, Sridhar
[US/US]; 361 Sunset Avenue, Sunnyvale, CA 94086 (US).

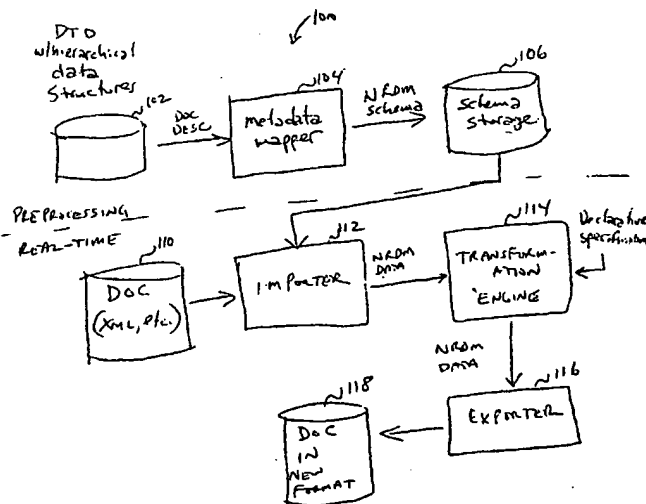
(74) Agents: ALBERT, Philip, H. et al.; Townsend and
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(81) Designated States (national): AE, AG, AL, AM, AT, AU,
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HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
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patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,

[Continued on next page]

(54) Title: NESTED RELATIONAL DATA MODEL



(57) Abstract: A data base system (100) handles nested relational data model (NRDM) data. A metadata mapper (104) converts DTD w/hierarchical structures (102) to NRDM schema that are then stored in schema storage (106). A document (110) is passed to an importer (112), then to a transformation engine (114) and an exporter (116) to result in a document in a new format (118). Because the transformation engine (114) operates on NRDM structures, the transformations can be expressed as a declarative specification, thus simplifying the process of transforming complex data. Exporter (116) exports the data in a suitable form such as XML documents, relational tables or flat files.

WO 01/59602 A1

RESULT LIST

Approximately **77** results found in the Worldwide database for:
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(Results are sorted by date of upload in database)

51 METHOD AND APPARATUS FOR PROCESSING MARKUP LANGUAGE SPECIFICATIONS FOR DATA AND METADATA USED INSIDE MULTIPLE RELATED INTERNET DOCUMENTS TO NAVIGATE, QUERY AND MANIPULATE INFORMATION FROM A PLURALITY OF OBJECT RELATIONAL DATABASES OVER THE WEB

Inventor: SARKAR SHYAM SUNDAR (US)

Applicant:

EC: G06F17/30W7L

IPC: **G06F17/30; G06F17/30; (IPC1-7): G06F17/30**

Publication info: **US6418448** - 2002-07-09

52 Method, apparatus, and computer program product for persisting objects in a relational database

Inventor: MAIMONE WILLIAM D (US)

Applicant: UNISYS CORP (US)

EC: G06F17/30S1; G06F17/30S3

IPC: **G06F17/00; G06F17/00; (IPC1-7): G06F17/00**

Publication info: **US6418451** - 2002-07-09

53 Network management event storage and manipulation using relational database technology

Inventor: COSTA BRIAN (US); DAS CHRIS P (US);
(+1)

Applicant: HEWLETT PACKARD CO (US)

EC: H04L12/24A6; H04L12/24D

IPC: **G06F15/00; G06F17/30; H04L12/24 (+5)**

Publication info: **EP0961439** - 1999-12-01

54 RELATIONAL DATABASE COEXISTENCE IN OBJECT ORIENTED ENVIRONMENTS

Inventor: MCCOLL HUGH (NZ)

Applicant: AORAKI CORP LIMITED (NZ); MCCOLL HUGH (NZ)

EC: G06F17/30S3

IPC: **G06F17/30; G06F17/30; (IPC1-7): G06F17/30**

Publication info: **WO9909494** - 1999-02-25

55 A method of mapping a relational database schema to an object oriented schema to have a co-existing relational database

Inventor: MCCOLL HUGH

Applicant: AORAKI CORP LTD

EC:

IPC: **G06F17/30; G06F17/30; (IPC1-7): G06F17/30**

Publication info: **NZ503238** - 2002-09-27

56 System and method for exchanging data and commands between an object oriented system and relational system

Inventor: PERIWAL DAMODAR D (US)

Applicant: SOFTWARE TREE INC (US)

EC: G06F17/30S3

IPC: **G06F17/30; G06F17/30; (IPC1-7): G06F17/30**

Publication info: **US6163776** - 2000-12-19

57 Method and apparatus for storing and manipulating objects in a plurality of relational data managers on the web

Inventor: SARKAR SHYAM SUNDAR (US)

Applicant:

EC: G06F17/30B; G06F17/30S1

IPC: **G06F17/30; G06F17/30; (IPC1-7): G06F17/30**

Publication info: **US6012067** - 2000-01-04

58 METHOD AND SYSTEM FOR APPLYING COLLATING PROCESSING TREE TO RELATIONAL DATABASE

Inventor: AGARWAL RAMESH CHANDRA; JHINGRAN
ANANT DEEP; (+2)

Applicant: IBM

EC: G06F17/30H

IPC: **G06F12/00; G06F17/30; G06F12/00 (+3)**

Publication info: **JP10247203** - 1998-09-14

59 Enhanced user view/update capability for managing data from relational tables

Inventor: GARDNER JONATHAN (US)

EC: G06F17/30S1

Publication info: **US6058391** - 2000-05-02

Applicant: MCI COMMUNICATIONS CORP (US)

IPC: **G06F17/30; G06F17/30;** (IPC1-7): G06F17/30

60 Documenting system for entities, attributes and schema of a relational database

Inventor: SZALWINSKI BRUCE P (US)

EC: G06F17/30H4

Publication info: **US6049803** - 2000-04-11

Applicant: ADVANCED MICRO DEVICES INC (US)

IPC: **G06F17/30; G06F17/30;** (IPC1-7): G06F17/30

Data supplied from the **esp@cenet** database - Worldwide

RESULT LIST

76 results found in the Worldwide database for:
relational in the title AND **schema and data** in the title or abstract
(Results are sorted by date of upload in database)

71 Method for mapping data between a relational format and an object-oriented format

Inventor: DURAND JACQUES (US); GANTI MURTHY (US); (+1) Applicant: US WEST TECHNOLOGIES INC (US)
EC: G06F17/30S3 IPC: G06F13/00; G06F17/30; G06F13/00 (+3)
Publication info: US5694598 - 1997-12-02

72 RELATIONAL DATABASE MANAGEMENT SYSTEM

Inventor: ONO ERIKO; AOSHIMA YOSHINARI Applicant: HITACHI MAXELL
EC: IPC: G06F12/00; G06F17/30; G06F21/24 (+5)
Publication info: JP8077205 - 1996-03-22

73 Relational access system for network type data bases which uses a unique declarative statement

Inventor: INOUE HIROYUMI (JP) Applicant: NIPPON ELECTRIC CO (JP)
EC: G06F17/30S1 IPC: G06F12/00; G06F17/30; G06F12/00 (+2)
Publication info: US5557788 - 1996-09-17

74 Logical schema to allow access to a relational database without using knowledge of the database structure

Inventor: MALONEY CHRISTOPHER W (US); JACKSON BRIAN D (US); (+3) Applicant: INFORMIX SOFTWARE INC (US)
EC: G06F17/30H4 IPC: G06F17/30; G06F17/30; (IPC1-7): G06F17/30
Publication info: US5701453 - 1997-12-23

75 Relational database management system and method for storing, retrieving and modifying directed graph data structures

Inventor: GOLDBERG ROBERT N (US); JIRAK GREGORY A (US) Applicant: XIDAK INC (US)
EC: G06F17/30P2; G06F17/30S1; (+1) IPC: G06F17/30; G06Q10/00; G06F17/30 (+2)
Publication info: US5201046 - 1993-04-06

76 Relational databases.

Inventor: CHANG PHILIP YEN-TANG; COYLE DANIEL JEROME JR; (+2) Applicant: IBM (US)
EC: G06F17/30S1 IPC: G06F17/30; G06F17/30; (IPC1-7): G06F15/40
Publication info: EP0336580 - 1989-10-11

Data supplied from the **esp@cenet** database - Worldwide

10/718,823

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Set	Items	Description
S1	1119459	DATABASE OR DATABANK OR DATA() (BASE? OR BANK? OR FILE? OR - REPOSITOR? OR WAREHOUSE?) OR DB OR RDB OR OODB OR ODBC OR DBMS
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S3	760	S2(5N) (DELIVER? OR SEND??? OR SENT OR UPLOAD? OR DISTRIBUT? OR TRANSFER? OR TRANSMI? OR BEAM???)
S4	590	S2(7N) (UPLOAD? OR LOAD OR LOADS OR LOADED OR LOADING OR PRELOAD? OR PRE() LOAD??? OR PRESENT? OR EXIST? OR INSTALL? OR INCLUDE? OR HAS OR CONTAIN?)
S5	288	S2(5N) (RECEIV? OR ACCEPT? OR ACQUIR? OR OBTAIN? OR DOWNLOADED? OR PULL???() DOWN?? OR PROCUR??? OR GET? ? OR FETCH??? OR RETRIEV?)
S6	194	S3:S5(7N) (BEFORE? OR PRIOR OR EARLIER? OR ADVANCE? OR IN() - ADVANCE OR AHEAD? OR SUBSEQUEN? OR PRESENT? OR CURRENT? OR ALREADY? OR IN() PROGRESS? OR PREVIOUS?)
S7	22	S6(7N) (MONITOR? OR DETECT? OR CHECK? OR DISCOVER? OR RECOGN? OR VERIF? OR JUDG? OR TEST??? OR DIAGNOS? OR ANALY? OR INSPECT? OR INVESTIG? OR DETERMIN?)
S8	14602	((CREAT? OR DESIGN? OR PRODUC? OR DEVELOP? OR ORIGINAT? OR MAKE?? OR MAKING? OR GENERAT?) (5N) ((SCHEM? OR TABLE? OR HIERARCH?) (3N) (STRUCTUR? OR ARRANG? OR CONFIG? OR CONSTRUCT? OR ORDER?)))
S9	261913	(SECOND? OR 2 OR II OR ANOTHER? OR OTHER? ? OR ADDITIONAL) - (2N) (CRITERIA? OR RULE? ? OR CONDITION? OR HYPOTHETICAL? ? OR FORMULA?)
S10	17787	S9(5W) (AFFILIAT? OR ASSOCIAT? OR BOUND? OR CONNECT? OR LINK??? OR CORRELAT? OR RELAT? OR FUNCTION? OR DEPEND? OR BASE? - ?)
S11	1970	S9(5W) (CONJUNCT? OR PARTNER? OR COUPL? OR JOIN? OR CORRESPOND? OR ATTACH? OR CONTINGENT? OR REFLECT? OR SENTITIVE?)
S12	20	RD S7 (unique items)
S13	2618141	SCHEMA? ? OR SCHEME? ? OR TABLE? OR HIERARCH?
S14	95132	S13(5N) (DELIVER? OR SEND??? OR SENT OR UPLOAD? OR DISTRIBUT? OR TRANSFER? OR TRANSMI? OR BEAM???)
S15	380240	S13(7N) (UPLOAD? OR LOAD OR LOADS OR LOADED OR LOADING OR PRELOAD? OR PRE() LOAD??? OR PRESENT? OR EXIST? OR INSTALL? OR INCLUDE? OR HAS OR CONTAIN?)
S16	85211	S13(7N) (RECEIV? OR ACCEPT? OR ACQUIR? OR OBTAIN? OR DOWNLOADED? OR PULL???() DOWN?? OR PROCUR??? OR GET? ? OR FETCH??? OR RETRIEV?)
S17	184658	S14:S16(7N) (BEFORE? OR PRIOR OR EARLIER? OR ADVANCE? OR IN() - ADVANCE OR AHEAD? OR SUBSEQUEN? OR PRESENT? OR CURRENT? OR ALREADY? OR IN() PROGRESS? OR PREVIOUS?)
S18	26485	S17(7N) (MONITOR? OR DETECT? OR CHECK? OR DISCOVER? OR RECOGN? OR VERIF? OR JUDG? OR TEST??? OR DIAGNOS? OR ANALY? OR INSPECT? OR INVESTIG? OR DETERMIN?)
S19	0	S1 AND S18 AND S8 AND S9 AND S10:S11(5N) S18
S20	0	S1 AND S18 AND S8 AND S9 AND S10:S11 AND S18
S21	177	S18 AND S8
S22	9	S21 AND S1
S23	9	S22 NOT S12
S24	11	S10:S11 AND S18
S25	11	S24 NOT (S12 OR S22)
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S1	1221710	DATABASE? OR DATABANK? OR DATA() (BASE? OR BANK? OR FILE? OR REPOSITOR? OR WAREHOUSE?) OR DB OR RDB OR OODB OR ODBC OR DB-MS
S2	1438353	SCHEMA? ? OR TABLE? OR HIERARCH? OR DATA() STRUCTUR?
S3	160038	S2(7N) (UPLOAD? OR LOAD OR LOADS OR LOADED OR LOADING OR PRE-ELOAD? OR PRE()LOAD??? OR PRESENT? OR EXIST? OR INSTALL? OR I-NCLU? OR HAS OR CONTAIN?)
S4	12394	S3 AND S1
S5	447	S4 AND (ENTIT??? ?())RELAT?)
S6	359	S5 AND SCHEMA? ?
S7	13	S6 AND (METADATA? OR META()DATA)
S8	37257	((CREAT? OR DESIGN? OR PRODUC? OR DEVELOP? OR ORIGINAT? OR MAKE?? OR MAKING? OR GENERAT?) (5N) ((SCHEMA? OR TABLE? OR HIERARCH? OR DATA OR DATASTRUCTURE?) (3N) (STRUCTUR? OR ARRANG? OR CONFIG? OR CONSTRUCT? OR ORDER?)))
S9	575	S4 AND S8
S10	20	S9 AND (ENTIT??? ?(2N)RELAT?)
S11	18	RD (unique items)
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Set	Items	Description
S1	48264	(SCHEMA? OR TABLE? OR HIERARCH?) (3N) (STRUCTUR? OR ARRANG? - OR CONFIG? OR CONSTRUCT? OR ORDER?)
S2	2156	(SCHEMA? OR TABLE?) (2N) ((LOAD?? OR UPLOAD?) () STRUCTUR? OR - CONSTRUCT?)
S3	5	S1:S2(7N) ((TEST??? OR DIAGNOS? OR ANALY? OR INSPECT? OR INVESTIG? OR DETERMIN?) (3N) ((PRESENT? OR EXIST? OR INSTALL? OR - ALREADY) (2N) (INFORMATION? OR FILE? ? OR DATA OR CONTENT? ?)))
S4	3	S1:S2(7N) ((MONITOR? OR DETECT? OR CHECK? OR DISCOVER? OR RECOGN? OR VERIF? OR JUDG?) (3N) ((PRESENT? OR EXIST? OR INSTALL? OR ALREADY) (2N) (INFORMATION? OR FILE? ? OR DATA OR CONTENT? - ?)))
S5	3851	S1:S2(7N) (CREAT? OR DESIGN? OR PRODUC? OR DEVELOP? OR ORIGINAT? OR MAKE?? OR MAKING? OR GENERAT?)
S6	439351	(SECOND? OR 2 OR II OR ANOTHER? OR OTHER? ? OR ADDITIONAL) - (2N) (CRITERIA? OR RULE? ? OR CONDITION? OR HYPOTHETICAL? ? OR FORMULA?)
S7	4590	S6(5W) (AFFILIAT? OR ASSOCIAT? OR BOUND? OR CONNECT? OR LINK??? OR CORRELAT? OR RELAT? OR FUNCTION? OR DEPEND?)
S8	3384	S6(5W) (CONJUNCT? OR PARTNER? OR COUPL? OR JOIN? OR CORRESPOND? OR ATTACH? OR CONTINGENT? OR REFLECT? OR SENTITIVE?)
S9	0	S7:S8 AND S3:S4
S10	8	S3:S4
S11	34	S5 AND S6
S12	6	S11 AND SCHEMA?
S13	6	S12 NOT S10
S14	19	S11 AND TABLE?
S15	16	S14 NOT S12

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S1	257377	DATABASE? OR DATABANK? OR DATA() (BASE? OR BANK? OR FILE? OR REPOSITOR? OR WAREHOUSE?) OR DB OR RDB OR OODB OR ODBC OR DB-MS
S2	24467	S1(7N) (SCHEMA? ? OR TABLE? OR HIERARCH? OR DATA() STRUCTUR?)
S3	8469	S2(7N) (UPLOAD? OR LOAD OR LOADS OR LOADED OR LOADING OR PRELOAD? OR PRE()LOAD OR PRESENT? OR EXIST? OR INSTALL? OR INCLUDE? OR HAS OR CONTAIN?)
S4	2908	S2(7N) (RECEIV? OR ACCEPT? OR ACQUIR? OR OBTAIN? OR DOWNLOAD? OR PULL???()DOWN?? OR PROCUR??? OR GET? ? OR FETCH??? OR RETRIEV?)
S5	1546	S2(7N) (DELIVER? OR SEND??? OR SENT OR DISTRIBUT? OR TRANSFER? OR TRANSMI? OR BEAM???)
S6	2752	S3:S5(5N) (BEFORE? OR PRIOR OR EARLIER? OR ADVANCE? OR IN()-ADVANCE OR AHEAD? OR SUBSEQUEN? OR PRESENT? OR CURRENT? OR ALREADY? OR IN() PROGRESS? OR PREVIOUS?)
S7	223	S6(7N) (MONITOR? OR DETECT? OR CHECK? OR DISCOVER? OR RECOGN? OR VERIF? OR JUDG? OR TEST??? OR DIAGNOS? OR ANALY? OR INSPECT? OR INVESTIG? OR DETERMIN?)
S8	24407	((CREAT? OR DESIGN? OR PRODUC? OR DEVELOP? OR ORIGINAT? OR MAKE?? OR MAKING? OR GENERAT?) (5N) ((SCHEMA? OR TABLE? OR HIERARCH? OR DATA OR DATASTRUCTURE?) (3N) (STRUCTUR? OR ARRANG? OR CONFIG? OR CONSTRUCT? OR ORDER?)))
S9	375408	(SECOND? OR 2 OR II OR ANOTHER? OR OTHER? ? OR ADDITIONAL)-(2N) (CRITERIA? OR RULE? ? OR CONDITION? OR HYPOTHETICAL? ? OR FORMULA?)
S10	26617	S9(5W) (AFFILIAT? OR ASSOCIAT? OR BOUND? OR CONNECT? OR LINK??? OR CORRELAT? OR RELAT? OR FUNCTION? OR DEPEND? OR BASE? -?)
S11	8799	S9(5W) (CONJUNCT? OR PARTNER? OR COUPL? OR JOIN? OR CORRESPOND? OR ATTACH? OR CONTINGENT? OR REFLECT? OR SENSITIV?)
S12	7	S7(100N)S8
S13	0	S7(100N) (ENTIT??? ? (2N)RELATION?)
S14	55506	S1(100N) (SCHEMA? ? OR TABLE? OR HIERARCH? OR DATA() STRUCTUR?)
S15	516	S14(100N) (ENTIT??? ? (2N)RELATION?)
S16	53	S15(100N)S8
S17	4	S16(100N)S10:S11
S18	321	S3(100N) (METADATA? OR META()DATA)
S19	10	S18(100N) (ENTIT??? ? (2N)RELATION?)
S20	10	S19 NOT S17
S21	3215	S14(100N)SCHEMA? ?
S22	82	S21(100N) (ENTIT??? ? (2N)RELAT?)
S23	18	S22(100N) (METADATA? OR META()DATA)
S24	20	S12 OR S17 OR S19:S20
S25	18	S23 NOT S24
S26	64	S22 NOT S24:S25
S27	34	S26 NOT (AD>2003 OR AD=2004:2007)
S28	6	S27(100N)S6
S29	28	S27 NOT S28

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 4. ☐ **Metadata-driven creation of data marts from an EAV-modeled clinical research database • ARTICLE**
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Cynthia A. Brandt, Richard Morse, Keri Matthews, Kexin Sun, Aniruddha M. Deshpande, Rohit Gadagkar, Dorothy B. Cohen, Perry L. Miller and Prakash M. Nadkarni
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6.   **Supporting iterations in exploratory database reengineering processes • ARTICLE**
Science of Computer Programming, Volume 45, Issues 2-3, November-December 2002, Pages 99-136
Jens H. Jahnke, Wilhelm Schäfer, Jörg P. Wadsack and Albert Zündorf
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7.   **Clustering relations into abstract ER schemas for database reverse engineering • ARTICLE**
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Parallel Computing, Volume 28, Issue 10, October 2002, Pages 1409-1449
Jeffrey Nesheiwat and Boleslaw K. Szymanski
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9.   **A unified constraint model for XML • ARTICLE**
Computer Networks, Volume 39, Issue 5, 5 August 2002, Pages 489-505
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A. Papadopoulos, D. I. Fotiadis and A. Likas
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Pattern Recognition, Volume 35, Issue 4, April 2002, Pages 895-914

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 14. ☐

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 15. ☐

Management of XML documents without schema in relational database systems • ARTICLE

Information and Software Technology, Volume 44, Issue 4, 31 March 2002, Pages 269-275

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 16. ☐

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Agostino Cortesi, Agostino Dovier, Elisa Quintarelli and Letizia Tanca

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Information Sciences, Volume 140, Issues 3-4, February 2002, Pages 295-317

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Information and Software Technology, Volume 44, Issue 1, 15 January 2002, Pages 41-51

Joseph Fong

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Annals of Epidemiology, Volume 12, Issue 1, January 2002, Pages 46-66

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Cylindric structures and dependencies in relational databases • ARTICLE

Theoretical Computer Science, Volume 269, Issues 1-2, 28 October 2001, Pages 451-468


Ivo Düntsch and Szabolcs Mikulás


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 21. ☐


The GIOD Project — Globally Interconnected Object Databases • ARTICLE


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
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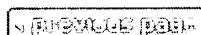
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